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|------------|--|-----|------------|
| <u>L10</u> | 19 and (nucleic adj acid\$)                | 2   | <u>L10</u> |
| <u>L9</u>  | 16 same express\$                          | 41  | <u>L9</u>  |
| <u>L8</u>  | 16 same recombinant\$                      | 0   | <u>L8</u>  |
| <u>L7</u>  | 16 same polynucleotide\$                   | 0   | <u>L7</u>  |
| <u>L6</u>  | sin1 or (sin adj 1)                        | 579 | <u>L6</u>  |
| <u>L5</u>  | short with integument\$ with polypeptide\$ | 0   | <u>L5</u>  |
| <u>L4</u>  | short with integument\$ with protein\$     | 1   | <u>L4</u>  |
| <u>L3</u>  | short adj integument\$ adj protein\$       | 1   | <u>L3</u>  |
| <u>L2</u>  | short adj integument\$ adj protein\$       | 1   | <u>L2</u>  |
| <u>L1</u>  | short adj integument\$ adj protein\$       | 1   | <u>L1</u>  |

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**\*File 50: Truncating CC codes is recommended for full retrieval.**  
See Help News50 for details.

File 68:Env.Bib. 1974-2002/Feb  
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File 77:Conference Papers Index 1973-2002/Jan  
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(c) 2002 Royal Soc Chemistry

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See HELP NEWS 305.

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Set Items Description  
--- -----

?s short (w) integument? (w) protein?

Processing

Processed 10 of 43 files ...

Processing

Processed 20 of 43 files ...

Processing

Completed processing all files

2447428 SHORT

139116 INTEGUMENT?

9967927 PROTEIN?

S1 1 SHORT (W) INTEGUMENT? (W) PROTEIN?

?show files;ds;t/3,k/all

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Set Items Description  
S1 1 SHORT (W) INTEGUMENT? (W) PROTEIN?  
>>>KWIC option is not available in file(s): 41, 77, 399

1/3,K/1 (Item 1 from file: 399)  
DIALOG(R) File 399: CA SEARCH(R)  
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134037959 CA: 134(4)37959f PATENT  
cDNA molecule encoding Arabidopsis thaliana gene SHORT-INTEGUMENTS1  
protein, sequence and biological uses thereof

INVENTOR(AUTHOR): Ray, Animesh; Golden, Teresa Ann  
LOCATION: USA

ASSIGNEE: University of Rochester  
PATENT: PCT International ; WO 200075359 A2 DATE: 20001214

APPLICATION: WO 2000US15800 (20000609) \*US PV138316 (19990609)  
PAGES: 51 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-000/A

DESIGNATED COUNTRIES: AE; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH;  
CN; CR; CU; CZ; DE; DK; DM; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL;  
IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK;  
MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT;  
TZ; UA; UG; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW; AT;  
BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ;  
CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG  
?s sin1 (s) recombinant?

433 SIN1  
1123978 RECOMBINANT?  
S2 18 SIN1 (S) RECOMBINANT?

?rd

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S3 4 RD (unique items)

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| Set | Items | Description                        |
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| S1  | 1     | SHORT (W) INTEGUMENT? (W) PROTEIN? |
| S2  | 18    | SIN1 (S) RECOMBINANT?              |
| S3  | 4     | RD (unique items)                  |

>>>KWIC option is not available in file(s): 41, 77, 399

3/3,K/1 (Item 1 from file: 5)  
 DIALOG(R)File 5:Biosis Previews(R)  
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10514080 BIOSIS NO.: 199699135225  
**Association of yeast SIN1 with the tetratrico peptide repeats of CDC23.**  
AUTHOR: Shpungin Sally; Liberzon Arthur; Bangio Haim; Yona Eyal; Katcoff

Don J(a)  
AUTHOR ADDRESS: (a)Dep. Life Sci., Bar Ilan Univ., Ramat Gan 52900\*\*Israel  
JOURNAL: Proceedings of the National Academy of Sciences of the United States of America 93 (16):p8274-8277 1996  
ISSN: 0027-8424  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

ABSTRACT: The yeast \*SIN1\* protein is a nuclear protein that together with other proteins behaves as a transcriptional repressor of a family of genes. In addition, \*sin1\* mutants are defective in proper mitotic chromosome segregation. In an effort to understand the basis for these phenotypes, we employed the yeast two-hybrid system to identify proteins that interact with \*SIN1\* in vivo. Here we demonstrate that CDC23, a protein known to be involved in sister chromatid separation during mitosis, is able to directly interact with \*SIN1\*. Furthermore, using \*recombinant\* molecules in vitro, we show that the N terminal of \*SIN1\* is sufficient to bind a portion of CDC23 consisting solely of tetratrico peptide repeats. Earlier experiments identified the C-terminal domain of \*SIN1\* to be responsible for interaction with a protein that binds the regulatory region of HO, a gene whose transcription is repressed by \*SIN1\*. Taken together with the results presented here, we suggest that \*SIN1\* is a chromatin protein having at least a dual function: The N terminal of \*SIN1\* interacts with the tetratrico peptide repeat domains of CDC23, a protein involved in chromosome segregation, whereas the C terminal of \*SIN1\* binds proteins involved in transcriptional regulation.

3/3,K/2 (Item 2 from file: 5)  
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10433952 BIOSIS NO.: 199699055097  
**Association of yeast SAP1, a novel member of the 'AAA' ATPase family of proteins, with the chromatin protein SIN1.**

AUTHOR: Liberzon Arthur; Shpungin Sally; Bangio Haim; Yona Eyal; Katcoff  
Don J(a)  
AUTHOR ADDRESS: (a)Dep. Life Sci., Bar Ilan Univ., Ramat Gan 52900\*\*Israel  
JOURNAL: FEBS Letters 388 (1):p5-10 1996  
ISSN: 0014-5793  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

ABSTRACT: The yeast \*SIN1\* protein is a nuclear protein that together with other proteins behaves as a transcriptional repressor of a family of genes. In addition, \*sin1\* mutants are defective in proper mitotic chromosome segregation. In an effort to understand the basis for these phenotypes, we employed the yeast two-hybrid system to identify proteins that interact with \*SIN1\* in vivo. Here, we demonstrate that SAP1, a novel protein belonging to the 'AAA' family of ATPases, is able to directly interact with \*SIN1\*. Furthermore, we show, using \*recombinant\* molecules in vitro, that a short 27 amino acid sequence near the N-terminal of \*SIN1\* is sufficient to bind SAP1. Previous experiments defined different domains of SIN that interact with other proteins and with DNA. The C-terminal domain of \*SIN1\* was shown to be responsible for interaction with a protein that binds the regulatory region of HO, a gene whose transcription is repressed by \*SIN1\*. The central 'HMG1-like region' of \*SIN1\* binds DNA, while the N-terminal of \*SIN1\* can bind CDC23, a protein that regulates chromosome segregation. These data, taken together with the results presented here, suggest that \*SIN1\* is a multifunctional chromatin protein that can interact with a number of different proteins that are involved in several different cellular functions.

3/3,K/3 (Item 3 from file: 5)  
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09780363 BIOSIS NO.: 199598235281

**The C-terminal domain of SIN1 in yeast interacts with a protein that binds the URS1 region of the yeast HO gene.**

AUTHOR: Yona Eyal; Bangio Haim; Erlich Porat; Tepper Steven H; Katcoff Don

J  
AUTHOR ADDRESS: Dep. Life Sci., Bar Ilan Univ., Ramat Gan 52900\*\*Israel  
JOURNAL: Molecular & General Genetics 246 (6):p774-777 1995  
ISSN: 0026-8925

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

...ABSTRACT: protein or protein complex has previously been identified in *Saccharomyces cerevisiae* which both binds a short DNA sequence in URS1 of HO and interacts with \*SIN1\*. \*SIN1\*, which has some sequence similarity to mammalian HMGI, is an abundant chromatin protein in yeast and is thought to participate in the transcriptional repression of a specific family of genes. \*SIN1\* binds DNA weakly, though it has no DNA binding specificity. Here we address the nature of the interaction between \*SIN1\* and the specific DNA binding protein(s) to HO DNA. We show that the isolated C-terminal region of \*SIN1\* can interact in vitro with the DNA binding protein, causing a supershift in a gel mobility shift assay. Interestingly, inclusion of the region in \*SIN1\* which contains two acidic sequences, precludes the binding of \*recombinant\* protein to the DNA/protein complex.

3/3,K/4 (Item 1 from file: 399)  
DIALOG(R)File 399:CA SEARCH(R)  
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134037959 CA: 134(4)37959f PATENT  
**cDNA molecule encoding *Arabidopsis thaliana* gene SHORT-INTEGUMENTS1 protein, sequence and biological uses thereof**

INVENTOR(AUTHOR): Ray, Animesh; Golden, Teresa Ann

LOCATION: USA

ASSIGNEE: University of Rochester

PATENT: PCT International ; WO 200075359 A2 DATE: 20001214

APPLICATION: WO 2000US15800 (20000609) \*US PV138316 (19990609)

PAGES: 51 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-000/A

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